# **Vertical Toggle Clamps** • with angle base and safety lock



## **Product Description**

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide rang of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

#### **Material**

#### Clamp

· Steel, zinc-plated by galvanization, passivated

### Rivet

· Stainless steel

#### Handle

plastic

### Clamping screw

· Steel, tempered, zinc-plated by galvanization

## Clamping cap

Rubber, black

## Plastic cap

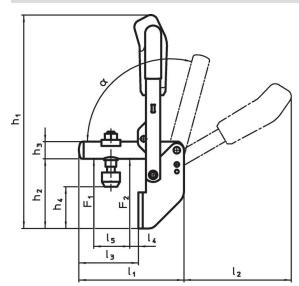
PVC, black

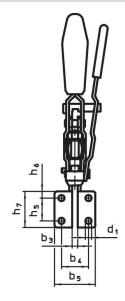
#### More information

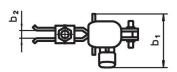
## References

Replacement clamping screws are available as accessories in the online shop.

## Drawing







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## **Order information**

	Clamping	Dimensions										Holding o		α	<u> </u>	)	Ŧ	Art. No.									
size	screw										for	ce															
		$d_1$	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	b <sub>5</sub>	h₁	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h₄	h <sub>5</sub>	h <sub>6</sub>	h <sub>7</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	l <sub>5</sub>	F <sub>1</sub>	F <sub>2</sub>		min.	max.		
											min.	max.															
	[mm]	[mm]										[kN]		[°C	;]	[g]											
Steel																											
3	M6 x 35	6.1	45	6	5	25.5	37	176.5	61	12	34	41.5	20	6	32	77	63	40	9	25	1.0	1.2	105°	-10	80	272	23330.0623
4	M8 x 45	6.5	55	8	6	28.5	43	223.0	71	18	40	48.5	24	7	38	112	111	65	11	43	1.4	2.5	105°	-10	80	551	23330.0624
5	M8 x 65	8.5	63	10	8	32.0	52	280.0	102	20	53	81.5	32	54	96	140	129	84	17	50	2.0	3.0	105°	-10	80	885	23330.0625

## Accessories

	d <sub>2</sub>	Ĭ	Art. No.						
	[mm]	[g]							
Clamping screw (spare part of toggle clamp)									
	M6 x 35	16	23330.9003						
	M8 x 45	38	23330.9005						
	M8 x 65	57	23330.9006						

# Compliance

For detailed compliance information please select the desired article number.



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